

[Name of Document] Abstract

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[PROBLEM TO BE SOLVED]: To provide a silica glass crucible, wherein there are no problems of generating a sinking and buckling when said crucible is used for pulling up silicon single crystal at a high temperature.

[SOLUTION]: The silica glass crucible used for pulling up the silicon single crystal, wherein at least an outer surface of a wall part of the crucible is covered with fine grooves having a length of less than $200\text{ }\mu\text{m}$, a width of less than $30\text{ }\mu\text{m}$ and a depth of from more than $3\text{ }\mu\text{m}$ to less than $30\text{ }\mu\text{m}$. Preferably, said fine grooves are formed by carrying out a sand-blast treatment and a hydrofluoric acid etching and exist on more than 10 % of the outer surface of the crucible, and a sliding frictional coefficient of the outer surface of the crucible to a carbon at 1500 degree C is more than 0.6.

[Chosen Drawing]: Nothing